Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-35 (Cancelled)

36. (New) A method of identifying an inhibitor of a glycosyltransferase that transfers a monosaccharide from a sugar nucleotide to an acceptor substrate, the method comprising contacting the glycosyltransferase, an acceptor substrate, and a donor substrate with a hydrophobic, non-carbohydrate test compound that inhibits interaction of a sugar with hydrophobic amino acids in the active site of the glycosyltransferase and determining the degree to which the activity of the glycosyltransferase is inhibited in the presence of the test compound.

37. (New) The method of claim 36, wherein the activity of the glycosyltransferase is determined using an antibody that is specifically immunoreactive with a product of the reaction catalyzed by the glycosyltransferase.

38. (New) The method of claim 37, which is an ELISA format.

39. (New) The method of claim 36, wherein the glycosyltransferase is expressed in a recombinant cell.

40. (New) The method of claim 36, wherein the donor substrate or acceptor substrate is labeled.

41. (New) The method of claim 40, wherein the label is a radioactive label.

42. (New) The method of claim 41, which is a radioactive column assay.

43. (New) The method of claim 40, wherein the label is a fluorescent label.

44. (New) The method of claim 36, wherein the glycosyltransferase is a fucosyltransferase.

45. (New) The method claim 36, wherein the glycosyltransferase is a sialyltransferase.

46. (New) The method claim 36, wherein the glycosyltransferase is an *N*-acetylglucosaminyltransferase.

47. (New) The method of claim 36, wherein the compound comprises an aromatic or aliphatic ring structure.

48. (New) The method of claim 36, wherein the compound comprises an aryl moiety.

49. (New) The method claim 36, wherein the compound comprises a heteroaryl moiety.

50. (New) The method of claim 25, wherein the heteroaryl moiety is selected from the group consisting of a thiophene, pyridine, isoxazole, phthalimide, pyrazole, indole, quinoline, phenothiazine, carbazole, benzopyranone, and a furan group.